2 <del>5X1</del>	Approved For Release 2004/03/26 : CIA-RDP78B05703A000200030016-42407-70	
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	MEMORANDUM FOR: Assistant Deputy Director for Intelligence	
25X1	SUBJECT : Request for Approval to Extend a Contract with the for the Development of a Dry Photographic Process at a Cost of from PY-71 R&D Funds	25X1
25X1	l. This memorandum requests approval to commit FY-71 funds for the extension of a research and development contract with the  . The specific request is stated in Paragraph 6.	25X1
25X1	2. There is a long-standing requirement for a rapid and inexpensive means of reproducing imagery for use in the photo interpretation process. Such reproductions are used for individual study, display, and analysis. The nature of traditional photographic processing is such that reproduction requires fairly extensive plumbing, complex chemistry, and sophisticated processing and drying equipment. In 1964, the demonstrated a very high resolution photoduplication material which required only heat for development and which contained one-third less silver than conventional photographic material. In subsequent years, MPIC has participated in the funding of this development in order to direct research toward our spacific goals. Work has proceeded in five separate but related areas: negative-acting film and paper, positive-acting film, dry diazo film and paper, and sheet processors. All of these areas, with the exception of the negative-acting and positive-acting films, are either completed already or will be completed by 30 September 1970. A detailed description of the proposed work in the latter two areas follows:	
	a. Dry Silver Negative Acting Film (Task I) - Normal photographic reproduction of film transparencies uses a negative to produce a positive work copy. This Dry Silver development is aimed at simplifying this production by use of hot air processing to replace the wet chemistry. Work under this task has already produced	25X1

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25X1	SUBJECT: Request for Approval to Extend a Contract with the for the Development of a Dry Photo-graphic Process at a Cost of Cross FY-71	25X1
25X1	usable materials. In addition, the technology gained from this basic Dry Silver development is either directly or indirectly applicable to the other Dry Silver offorts. Although nearly all of the goals have been met, additional work is needed to improve the film's archival stability and speed to the level required for good production standards. Funding in FY-71 will be approximately NRO has been funding Task I. However, it is estimated that 40% of the research under Task I is now directly applicable to Task III. NRO has agreed to fund 60% of Task I, or approximately with NPIC	25X1
25X1	funding the other as part of the positive-acting film and paper development effort.  b. Dry Silver Positive-Acting Film & Paper (Task III) This effort is aimed toward the development of a single-atep (positive-to-positive) photographic reproduction film and paper. This would eliminate the use of a two-step internegative process or the storage and retrieval of a film negative for use in reproducing duplicate positive film transparencies. Additionally, paper prints and photo enlargements could be made directly from film positives. The savings in time and materials for a one-step photo-reproduction system are solf-evident. This positive-acting film is the most recent Dry Silver material to be developed and, as such, still requires some basic research despite the fact that significant advan-	
25X1	ces have been made over the last eight months. Although, there are still technical risks involved with this development, the potential payoff for a dry process, positive-acting material is tramendous, including possible savings in both costs and time, and in image resolution and quality. Realization of this potential, however, will require improvements in gamma control (contrast control) and processing sensitivity for the positive acting material. The fY-71 expenditure will be approximately Additional funding will probably be required for fY-72.	
	The deliverable items for these two tasks will be monthly progress reports and samples of developed materials.	25X1

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25X1	SUBJECT: Request for Approval to Extend a Contract with the for the Development of a Dry Photographic Process at a Cost of From FY-71 RED Funds	25X1
25X1	3. Because of the potential commercial application of this system. has naturally joined heavily in a cost-sharing R&B funding, spending of its own for every	25X1
25X1	supplied by the Government. At the present time, some of the dry process materials are in the pilot plant scale-up	
25X1 25X1	phase, which is wholly supported. The cost-sharing burden is now more like with the absorbing the cost of materials and coatings.	25X1
	4. This project is fully coordinated with the intel- ligence community through EXRAND. In addition, continuing coordination is maintained with other Army, Navy, Air Force, and Agency components having a known interest in dry silver projects.	
25X1	project officer for this contract. The Sterility Code is appropriate for this project; Agency association with the contract will be CONFIDENTIAL, but the project title and work will be UNCLASSIFIED.	25X1
25X1	6. It is requested that approval be granted to neg- otiate a contract with the at a cost not to exceed and to be charged against Category V FY-71 R&D Funds	25X1 25X1
	ARTHUR C. LUNDAHL Director Wational Photographic Interpretation Center	25X1
	Attachments: 1. Proposal 2. Form 2420	
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	Assistant D	eputy Director	for Intellig	ence Date
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